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#### **REMARKS**

Favorable reconsideration and allowance of this application are requested.

By way of the amendment instructions above, claims 41-52 have been added for consideration. Independent claim 41 is similar to original claim 30, but requires that the first and second aqueous solutions contain human or serum albumin and a di- or polyaldehyde which is reactable with the bovine or human serum albumin, respectively. In addition, the language of claim 41 is not specific as to which of the first and second aqueous solutions contains the blowing agent and the acidic titrant, respectively.

No further amendments have been proposed with respect to prior claims 30-40. Hence, claims 30-52 are presently pending in this application for which favorable reconsideration and allowance are solicited.

#### I. Response to Art-Based Rejections

All prior pending elected claims (i.e., 30-40) attracted a rejection based principally upon the cited Nussinovitch reference (USP 6,589,328) either alone or in combination with Wang (USP 5,922,379) and Fattman et al (USP 6,326,524). Specifically, the Examiner asserts that Nussinovitch anticipates (35 USC §102(e)) the definition of the subject invention in claims 30 and 38, while both Wang and Fattman et al, when combined with Nussinovitch are asserted to render "obvious" (35 USC §103(a)) the invention defined by claims 30-40. Applicants suggest however that none of the applied references anticipates or renders obvious the present invention.

With regard to Nussinovitch, the Examiner asserts that in Example 1 at column 5, the reference discloses combining a solution of alginate, calcium carbonate and a solution of citric acid. It appears, however, that the Nussinovitch reference may have been misinterpreted. Specifically, it is true that an alginate powder, calcium hydrogen orthophosphate and calcium carbonate are formed into an aqueous solution and then admixed with a solution of glucono-delta-lactone. However, this admixture is then

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"...poured into a plastic container...and let to set there. After 48 hours, specimens were taken from the slab...." (column 5, lines 37-38) It is this "slab" – that is to say, solid material – that is then brought into contact with citric acid solution. Specifically, Nussinovitch disclose that the slab is "...immersed in citric acid solution 2%." (Column 5, line 40).

Hence, there is absolutely no disclosure that applicants can discern in Nussinovitch whereby one part of a two-part reactable solution kit contains both a proteinaceous material and a blowing agent, and wherein a second part of the two-part reactable solution kit comprises both a solution which is reactable with the proteinaceous material to form a biopolymeric material, and an acidic titrant reactable with the blowing agent sufficient to impart a cellular foam structure to thereto. Indeed, Nussinovitch's disclosure of first forming a solid material and then contacting the solid material after a considerable period of time teaches directly against a kit as defined in the present claims to form in one simple step a cellular biopolymeric material.

The cited secondary references to both Wang and Fattman et al appear to be even less pertinent than Nussinovitch. Specifically, Wang merely teaches that a *thermoplastic* material may be made from protein, starch, cellulosic fiber and water. Fattman et al merely teaches that foams of hydrocolloids adhesives may be made. Niether Wang nor Fattman et al disclose or suggest a kit as claimed herein whereby one part of a two-part reactable solution kit contains both a proteinaceous material and a blowing agent, and wherein a second part of the two-part reactable solution kit comprises both a solution which is reactable with the proteinaceous material to form a biopolymeric material, and an acidic titrant reactable with the blowing agent sufficient to impart a cellular foam structure to thereto. Thus, neither Wang nor Fattman et al cure the deficiencies of Nussinovitch as discussed previously.

Notwithstanding the substantive distinctions between the present invention and the applied references, there is attached hereto a Declaration Under Rule 131 which setablishes an invention date of the subject matter defined by the pending claims which

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antedates the filing dates of both the Nussinovitch and Fattman et al refrences. Thus,

withdrawal of Nussinovitch and Fattman et al for this reason also is in order.

II. Information Disclosure Statement

As requested in the penultimate paragraph on page 3 of the subject Official

Action, there are attached hereto copies of publications cited during prosecution of

copending application Serial Nos. 09/983,537 (Atty. Dkt. 1577-162) and 09/570,600

(1577-116). A copy of each listed publication is also attached for the Examiner's

convenience and is listed on appropriate forms PTO-1449. Consideration of such listed

publications during prosecution of the subject application is respectfully requested, for

which purpose the fee required by Rule 97(c) is attached.

III. Conclusions

Every effort has been made to advance prosecution of this application to

allowance. Therefore, in view of the amendments, remarks and attachments submitted

herewith, applicants submit that this application is in condition for prompt allowance and

Official Notice of the same is solicited.

Respectfully submitted,

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In re Patent Application of

YUKSEL et al

Atty. Ref.: 1577-164

Serial No. 09/986,124

Group: 1617

Filed: November 7, 2001

Examiner: Edward J. WEBMAN

For: EXPANDABLE FOAM-LIKE BIOMATERIALS AND METHODS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### **DECLARATION UNDER RULE 131**

Sir:

The undersigned, K. Ümit YÜKSEL, Ana T. BIRD and Kirby S. BLACK, hereby jointly declare and state that:

- We are the same individuals who are named coinventors of the subject matter disclosed and claimed in the above-identified application.
- 2. The subject invention as claimed in the above-identified application was completed in this country prior to June 18, 1997.
- 3. Specifically, attached hereto as Exhibit A are date-redacted laboratory notebook pages which evidence both conception and reduction to practice of the subject invention. Specifically, the attached pages of Exhibit A evidence both conception and reduction to practice incorporating a blowing agent (Na-bicarbonate) into the albumin component of a two part proteinaceous biopolymeric system comprised of the albumin component and a glutaraldehyde component.

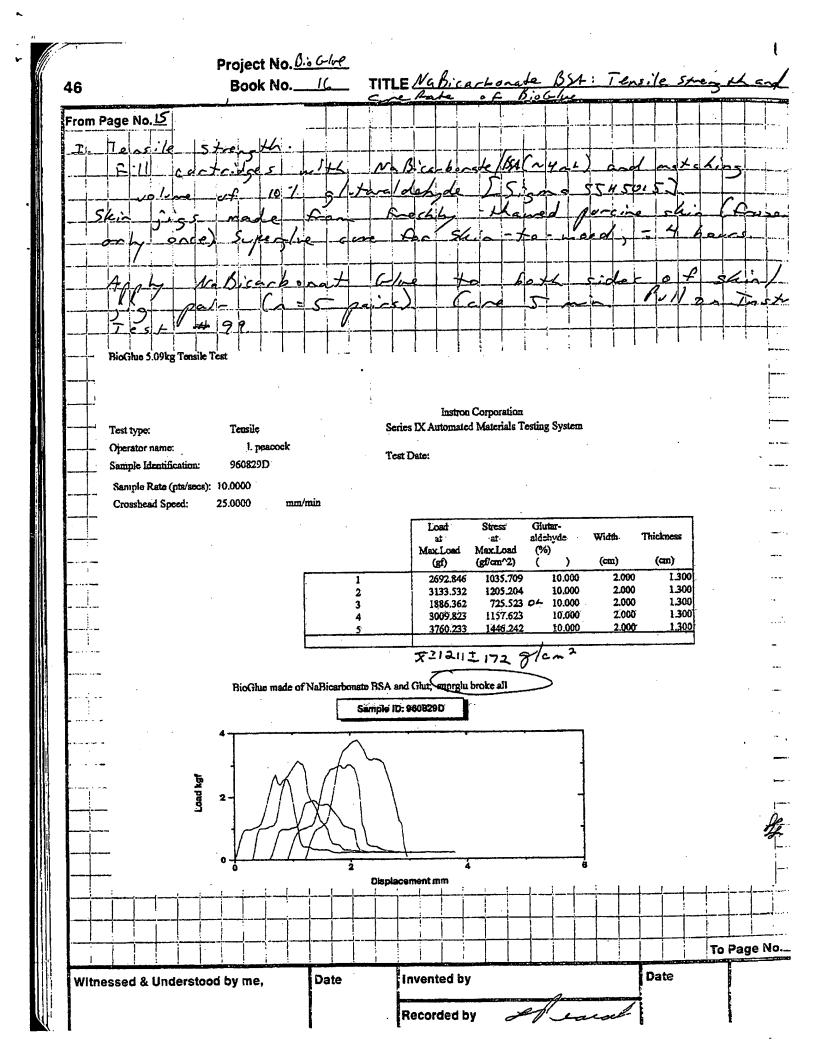
#### YUKSEL et al Serial No. 09/986,124

- 4. All of the events noted in Exhibit A attached hereto as Exhibit A were actually conducted and occurred in the United States of America prior to June 18, 1997.
- 5. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully Submitted,

25 June 2004 Date Signed	is. yélesel
Date Signed	K. Ümit YÜKSEL
4/15/04	anc J. Bird
Date Signed	Ana T. BIRD
6/23/04	Vind Blek
Date Signed	Kirby'S. BLACK

Project No. Binche 90 Book No.\_\_\_\_\_\_ BSA, diluted with TITLE Leggesties From Page No. 1000 50/0 Bicarb A.C.S SFirson 5233-500 84.018/ 18/4 1/1 50/n 4 2005 8/ 2500 Choch 11.25 The Tore **EXHIBIT** Add more Nabicarb Still needs 24 405. Place NaB, carb 6 3700 To Page No.\_ Witnessed & Understood by me, Date Date Invented by Recorded by Alexan



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